# SOUTHERN IEXTILE BULLETIN

VOL. VI

CHARLOTTE, N. C., NOVEMBER 6, 1913

NUMBER 10

## Re-Organization of Old Mills a Specialty

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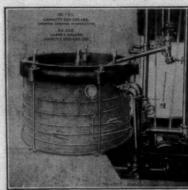
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# SOUTHERN EXTILE BULLETIN

CHARLOTTE, N. C., NOVEMBER 6, 1913

NUMBER 10

## Prosperous Year in Northern China

continued. concession work was begun on an improvement to the bund, by which point of land which interfered with navigation was cut away and an improved wharf made with reenforced concrete. Work was begun also to improve the bund in front of the Russian concession. which it will take a year or two to complete. All the concessions show a marked improvement in the a marked improvement in the character of the new buildings erected.

The year opened, however, with gloomy prospects for business the Tienstin consular district because of the uncertainty and confusion caused by the revolutionary movement. In addition to this- extensive and heavy rains in the summer caused serious floods in the plain region about Tienstin. number of villages and practically all the crops over a wide area were destroyed and probably a quarter of a million people rendered desti-But the untiring industry of the Chinese rose triumphant over all these difficulties. The closing third of the year was a period of unprecedented activity, and by the end of 1912 the burned district of Tienstin was practically altogether rebuilt with better structures than enormous export trade helped to restore normal conditions, as did also the high rate of exchange ruling throughout the period. As a result the year proved prosperous beyond all expectations and the customs collections at Tienstin were greater than ever before in the history of the port.

The total collection of revenue at the customhouse in Tienstin for 1912 was \$2,533,084, being an increase of \$83,259 over the figures of 1911, hitherto the largest amount collected at this port. The amount of import duties shows a slight de-crease as compared with the previous year, being \$858,405, as against \$887,196 for 1911. There was also a

Tienstin last year has an increase over the previous year of North China have as yet adopted cess for dyeing them. The supply Building activities were of \$18,186, while the outward transit Western dress. It is the constant proving inadequate, prices of goatbrisk throughout the past year in dues show an increase of \$70,240. It remark by tourists who come from all the concessions. On the French may be noted here that no opium southern China to the north that was imported or exported during the year, and hence there were no collections of duty or if likin on this article.

There was a steady demand for foreign goods during the year. While the value of foreign imports decreased, the actual demand by consumers for foreign goods was much greater than the figures would indicate. At the end of 1911 the warehouses were packed with foreign goods imported during that year for which no market could be found. These, of course, had to be held over during the early part of 1912 until there was an improvement in the political situation. These accumulated stocks were all cleared out, and at the close of 1912 there were merely normal stocks on hand at the warehouses.

A noteworthy feature of the import trade is the rapid increase in the volume of imports of Japanese cotton manufactures, which grew from \$4,296,000 in 1911 to \$5,012,000 in 1912. This increase coincided with a corresponding decrease in importations from other countries. For example, in 1907 the imports Japanese sheetings were 121,642 637,784 pieces, pieces and in 1912 while American sheetings declined from 1,204,784 pieces in 1907 to 497,-790 pieces in 1912.

Another feature of the cottongoods trade is the beginning of the importation of chintzes and prints from Russia. This trade will probably increase, as the designs are new and apparently very attractive to the Chinese. Another point is that the manufacturers furnish cases containing pieces of different trade. designs—a feature which appeals The very strongly to the native dealers.

As a result of the revolutionary movement, there has been a considerable increase in the demand for foreign articles of wearing apparel, especially hats and caps, the value of the imports of which rose from \$1,244 in 1911 to \$117,933 in 1912. small decrease in the two items of There was also an increase in the coast-trade duty and tonnage dues. imports of ready-made clothes, There was an increase of \$53,342 in boots and shoes, hosiery and wool-the amount of duty collected on en fabrics. Of course, only a few

the mass of the people here still wear queues and the native dress, while in the south the reverse is the case.

The importations of cigarettes in Tienstin in 1912 increased nearly 82 per cent. About half of these imports came from Great Britain, about a quarter from Japan and most of the remainder from the United States.

Imports of kerosene were some four and one-half million gallons less than in the previous year, but the actual consumption was the highest on record. At the close of 1911 both the great importing firms had enormous stocks on hand. In the spring the price of oil rose sharply, but dropped to the normal figure during the latter part of the year.

The increase in the export trade Tienstin to the United States has been a steady one, declared exports in 1910 having amounted to \$6,047,734. The export of oxbides last year was a direct result of a foreign-trade opportunity sent from this office and published in the Daily Consular and Trade Reports. The American firm of S. Zimmerman & Co., withch supplies beef to the Russian garrison at Vladivos-tok, asked this office to put them in communication with purchasers of salted hides. This was late in 1911, and the result was that \$6,540 worth of these hides were shipped 1912. There has been some inquiry at this consulate general as to the jute grown in northern China, and inquirers have been put in communication, in every case. with firms willing to enter the

The principal decrease was in the item of Manchurian walnuts, exports of which decreased by over \$129,000 in 1912 as compared with 1911. The reason for this is interesting. Inquiry for these walnuts from the United States began in 1910. The demand in 1911 was very heavy-so heavy that orders from the United States could not be filled, and in the beginning of 1911 the merchants in Tienstin sent Chinese buyers throughout the region

The prosperity noted in the re- exports. Transit dues inward show of the hundred million inhabitants skin rugs, because of a new proskins rose from an average of 50 cents to 82 cents, while rugs rose from 75 cents to \$1.04. Dogskin mats were exported chiefly to the United States. These skins came from Manchuria, where dog farming for the sake of the skins is a recognized industry. The increased exports to the United States are due to the demand for cheap fur motor coats and gauntlets. Another item which increased was curios The Chinese government is considering the question of restricting the hitherto unlimited export of these articles. The increase in the export of peanuts, locally known as groundnuts, is probably due to the opening of the Tienstin-Pukow Railway, which gives facilities for transportation to Tienstin from a region in which these nuts are largely cultivated. Formerly they went by a more indirect route to Tsingtau for

> There was a satisfactory increase for the year in the amount of foreign goods sent inland, 32,933 transit psases being issued, covering goods valued at \$18,845,991. In 1911 total value of the goods sent inland was \$18,118,580, unler 31,605 transit passes. The bulk of this trade was, of course, in the province of Chihli, the value of the goods sold therein being \$10,500,275. The Province of Shansi took goods to the amount of \$3,613,510; Kansu, \$1,982,991; Honan, \$1,354,784; and Shantung, \$890,-The total value of inland goods brought into Tienstin for export during 1912 was \$13,743,220, of which \$3,023,863 worth came from outside the Great Wall through Kalgan This is an increase of 50 per cent over the trade from the same region in 1911, due to the increased in oil-bearing seeds and to the better railway facilities.

> During the navigation season of 1912 there were 908 entrice steamers, with a cargo tonnage of production to purchase the crop before it was ripe for delivery. The Chinese, eager to realize the increased prices, thrashed the nuts down from the trees while the ker nels were still in the milk and threw them on the market as early

> > (Continued on Page 18)

## Methods of Cleaning Fires

(Courtesy of Clinchfield Fuel Co.)

#### General Remarks,

Good fires are the first requisite to economical operation of steam boilers.

To keep hand fires in good condition, they must be properly cleaned at regular intervals. The length of these intervals depends on the rate at which coal is burned and on the percentage and character of the ash; it also depends on the size of the air openings in the grate; the interval between cleanings when coal can be saved. burning Clinchfield coal is about 12 The slice-bar is hours. When air spaces in the the burning coal to one side of the grate are small or when the rate grate before cleaning fire. After the

#### CHAPTER I.

Proper Tools for Handling Fires. Figure 1 shows a set of three cools for handling fires. The set tools for handling fires. consists of a rake, a slice-bat and a hoe. The bodies of these tools should be made of iron pipe, which construction makes them light and strong. Any blacksmith with average skill can make them. They cost about \$6 for the set of three. They

The rake is perhaps the most uselarger the openings the less fre- ful tool in the fire-room. It is used quently the fires need to be clean- in breaking and leveling the fires. Under average conditions, the By its judicious use many a ton of

The slice-bar is useful in shoving

Welded joints

-1 inch Standard iron pipe 9Ft

RAKE

SLICE BAR

Welded Joint

1 inch standard iron pipe

HOE

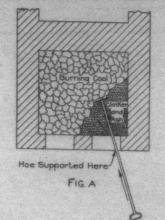
- 26 L

3x1/2 in. and welded to the pipe. Galvanized iron pipe should not be used.

#### CHAPTER II.

#### Side-Cleaning Method as Applied to Two-Door Furnaces.

Figures A to J show this method applied to two-door furnaces. The cleaning is done by removing the refuse from one side or half of the



grate at a time. During the cleaing of a fire the damper between ,he boiler and the breeching should be closed.

Fig. A.—The fireman takes the hoe and with a motion indicated be loosened by running the slice-by the arrow pushes the burning bar under it and pushing the hancoal from the front part of the right half of the grate towards the rear. and as much onto the left half of

grate undisturbed.

Fig. C.—When the good coal has been pushed back far enough as shown in Fig. A, the fireman should take the paddle-shaped slice-bar and with two or three sweeping strokes scrape the good coal from the rear of the right half onto the left half of the grate. The strokes are similar to those of an oar when rowing a boat and are indicated by the arrow in Fig. C, the slice-bar resting against the side edge of the fire-door frame.

Fig. D shows the grate when all the coal has been pushed from the right half and the ash and clinker are ready to be pulled out. If the clinker adheres to the grate it can



dle downward. In case the adhering clinker is soft it is well to wait three or four minutes before atthe grate as possible, taking care tempting to loosen it; these few not to disturb the layer of ash and minutes may be sufficient to cool few

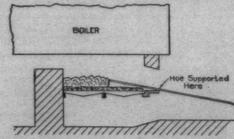


Fig. 1.

of combustion is high, cleaning of ash and clinker are pulled out with clinker under the coal.

Cleaning of fires in order to be effective must remove all ashes and clinker from the grate; that is, should remove all the refuse that for any reason cannot fall thre a the grate.

A day's run should be started with thoroughly clean fires. If anshortly before noon, or at a time when the load on the boiler is re-

furnaces fired continuously, we recommend the side-cleaning methed as the most effective.

In all of the illustrations the mo-Mons of the tools are indicated by the arrows.

fires may have to be done every six the hoe the slice-bar can be used again to move the burning coal onto the cleaned half of the grate.

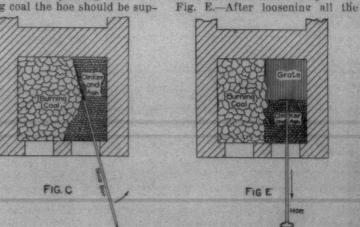
The hoe is useful for pulling ash and clinker out of the furnace when cleaning the fires. It is also used to advantage to move the burning coal to one side before or after cleaning the fires, and to clean the ash-pit.

By taking reasonable care of the other cleaning must be done dur- tools they can be made to last a ing the day, it should be done great many months and even years. great many months and even years. The rake should always be laid down on its back.

Lengths of tools as given on op-For double-door or single-door posite page are for furnaces having grates 6 feet deep: lengths of tools for furnaces having other depths of grate should be changed accordingly.

FIG.B

and harden the clinker so that it Fig. B. - In pushing back the can be loosened more easily. burning coal the hoe should be sup-

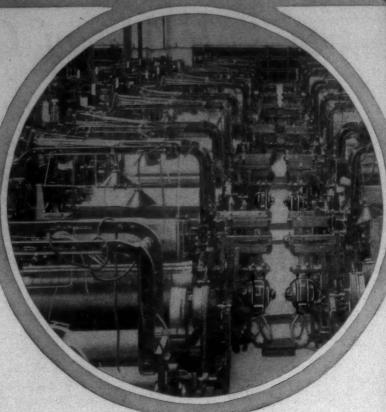


clinker the fireman should take the cordingly.

ported on the lower edge of the hoe and pull all the clinker and ash
The paddle of the slice-bar should fire-door frame so that the layer of from the rear to the front of the
be made of flat iron 3x% in. or ash and clinker will remain on the

(Continued on Page 16.) (Continued on Page 16.)





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## Care and Opertaion of Roving Frames

Contest Begins.

In this week's issue we begin competent man. the series of articles which have been contributed to the contest for the best practical paper on 'Care and Opreation of Roving Frames."

number of others before Nov. 15th which is the best date upon which articles can be mailed and be considered in the contest.

We have selected seven practical mill men as judges of the contest. They are located at different points in the South and do no know the names of the writers or of the other judges.

When the contest is closed these articles will be published in book form and two copies given to each one who has contributed an article.

#### Number · One.

I am glad to contribute an article to the contest on the "Care and Operation of Roving Frames," and presume that the subject includes slubbers, intermediates, fine and jack frames. I will not attempt to select any particular build of frames, as they will all give good results if properly cared for. I will deal with roving frames in rotation. The slubbers will receive first consideration, and for good results should be properly erected when

should be properly erected when installed. The overseer should watch the work and see that all frames are well lined and leveled, frames are well lined and leveled, and that all parts, gears and hearings are properly adjusted. When a sample of the roving has been built, see that it possesses the desired lay stoke and taper. Devote the same attention to each spindle as you do to the entire number of spindles to be operated and when a frame has been put in motion with all ends up, see that it does not consume more power to drive the machine than is necessary for a like number of spindles. For instance, if a machine stops very suddently when the belt is shifted to the loose pulley, as if something had eaught

Twenty articles have been contributed up-to-date and we expect a the rudiments of draft and twist, so the rudiments of draft and twist, so will simply say that the draft and twist should be governed by local conditions, staple of cotton and hank roving desired. I do not approve of the method, as practiced by some men, of an excess draft on roving frames. Under draft is equally as bad, so have the draft, twist, lay and tension to meet the requirements of a well organized card room. Space the rolls for the staple of cotton being used, say for slubbers on 7-8 inch staple, set the middle steel roll front with gauge in the stand, so that while the middle set of rolls are holding the extreme ends of the fibres, it will be within 1-8 inch of being deliverbe within 1-8 inch of being deliver-ed to the front set of rolls.

ed to the front set of rolls.

I have been advised to set one inch center to center of the rolls on 7-8 inch cotton, but actual tests show that it cannot be done successfully. Then space the middle roll to the back to that while the back set is still holding the extreme ends of the fibres, it will be within 3-46 of an inch to delivering to the middle set of rolls. Now, if you will consider the rolls in operation for the fraction of a second the answer to holding and deliverthe answer to holding and delivering the staple is obscured. The above spacing for slubbers when there is more stock in bulk there than in any other roving process, and based on 7-8 inch staple. When inch staple is being used, rolls should be set in the same proportion and vice-versa. tion and vice-versa.

The same spacing on top leather rolls will give good results. Be sure that the leather rolls are kept in good condition and not allowed to run against the top cots or without oil. Keep the flyers well balanced and the present the roll of the present the roll of the roll the same attention to each spindle as you do to the entire number of spindles to be operated and when a proper relation to the bobbins. See frame has been put in motion with that the spindles turn freely in all ends up, see that it does not steps and bolsters, and have spinconsume more power to drive the machine than is necessary for a like number of spindles. For instance, if a machine stops very suddently when the belt is shifted to the loose avoid waste at the intermediate pulley, as if something had caught

in the gear, it is evident that the to put extra twist at any process to see if they are perfect in build, machine is running very hard and when piecing ends, and teach them Look after the actual tension while needs immediate attention from a the bad results incurred from this, the frame is in motion by placing needs immediate attention from a the bad results incurred from this competent man.

Next and most important is the off the frames, but teach them to quality and quantity, and above all keep them in a clean condition by get quality of production. To do wiping them off at all times. If the this it is necessary to have good even drawing sliver. I have assumperation of roving frames are ed that the men contributing to this followed, then you will have paved contest are men who understand the way for successfully operating the rudiments of draft and twist so roving frames. the way for st roving frames.

The next process for considera-tion is the intermediates which have the same effect as the slubbers, that is condensing and getting the rovin more convenient form for handling. So assuming that we have a creel of good slubber roving to begin with and that the frame has been geared up, keeping in mind that the stock being handled at this point is in a more cendensed form, haing more verds in less weight. being more yards in less weight, teach the attendant to avoid long ends on creeling and to prevent lumpy work from being delivered. An end broken too short allows a singling light place in the roving. Teach the attendants to avoid unnecessary waste, making them particularly understand that you will not stand too out roving at any ticularly understand that you will not stand for cut roving at any process. Emphasize especially that you want the clearer boards picked off four times daily to keep this waste from getting into the work. Keep the rolls in good condition, and properly spaced to meet the requirements. The same practice that applies to slubbers, mechanically speaking, applies to all frames in the roving process. the roving process.

cally speaking, applies to all frames in the roving process.

When frames are run continually, they should be cleaned up once in every four or six months, the rolls taken out and scoured and the necks examined. If any loose ones are found, they should be tightened. When the condition of the machines require it, they should be gone over thoroughly by a competent man once a year and all parts made level, all badly worn gears and bearing replaced with new lones, spindle steps tightened, bolsters mopped out and set. All shafting couplings should be examined and tightened. Keep all the casing adjusted to the brackets, not allowing any to be taken off or discarded. Have cone belts at a point on the cone to avoid stretching the roving, but do not allow the roving to coil top of flyers. Prevent this by changing the small gear on the boltom cone if necessary. Examine the full bobbins occasionally the bottom cone if necessary. Ex- fram amine the full bobbins occasionally back

the frame is in motion by placing a pencil under an end and gradually pulling it two or three inches.

If it takes up with a bound, the tension is too tight, but if it takes up gradually as it is being pulled outward, it is a safe bet that you are not stretching the roving.

In all cases use two cone belts, either a follower or a rider and do not have piecings from cone belts breaking. The next process is fine frames. The principle is the same as in the previously mentioned machines, condensing and putting the chines, condensing and putting the roving in more compact form for chines, condensing and putting the roving in more compact form for handling. To operate these machines properly, do not attempt to have the jack shaft running at too high a speed. For fine frames, from 350 to 400 R. P. M. and for jack frames from 425 to 500 R. P. M. are good speeds. This is another point that is governed by conditions. I think it best to run spindles on fine frames from 1,400 to 1,250 R. P. M. and on jacks from 1,400 to 1,600 R. P. M., after making sure that all parts of the frame are well lined and leveled and that all gears and bearings are in good condition and properly set. By properly set is meant just what the word implies; for instance, that all gears and bearings are in good condition and set in position to give the results intended by the health dition and set in positon to give the results intended by the build-ers. To render these machines ef-ficient, do not allow some jackleg fixer to change the combination of the lay, and tension by putting on the gear most convenient to him, or run only one hank roving. It is important to see that all are geared alike, otherwise bad running frames

and unevenly built bobbins of roving are the bad results.

Oiling at the right time and place is very essential to the long wear and care of roving frames. Use and care of roving frames. Use a good oil that will lubricate well have all fast gearings and have all fast gearings and bearings oiled twice each day and slow moving parts once a day. To slow moving parts once a day. To get the best results with solid back top rolls, and shell rolls in front, have the back rolls oiled twice a week on fine work and three times aweek on coarse work. Examine aweek on coarse work. Examine the frames personally at times, by stopping them and starting them up and you may detect some surface trouble. Also look over the compound and after stopping the frame, look out for lost motion or back lash. Do not allow bearing

## W. H. BIGELOW

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127 Central Avenue, Atlanta, Ga.

#### Number Two.

The first thing in mind is good ling. All parts should be well lled on Monday morning. The should morning. The in horseoiled on oned on Monday morning. The compound gears, gears in horsehead train, spindle drive gears, jack shaft, loose pulley, and jack gear over twist gear should be oiled every morning; cones and draft gear studs and lay driving gears need only be oiled three times per week cn Monday, Wednesday and Friday: lifter shaft once per week and steel rolls twice per week. The top leather rolls should be oiled once a week and shell rolls once a month. Spindles should be oiled twice per week on every Monday and Thursday morning. There is no need of oiling steps over once a month, provided you use the proper oil for this purpose. Steps and rolls should be oiled with a nonfluid oil; a good engine oil will do for all other oiling. If your frames are in line and level, you will not have to oil any oftener than this. Of course, if your frames are out of line and level, you cannot oil them enough, for they will stay hot, stuck-up and broken down all of the time. Here is the reason that steps run dry so often. If the carriage is not level, the spindles will bind in the steps. A lot of fivers when they have a bolster broken, will get another one, which sometimes will not fit the rail and correspond with the step like it ought to. Probably it needs a small piece of pastebnard between it and the rail or a little filing, but they will not use either one. Instead they put it in when it binds in the step, and let it go. That step compound gears, gears in horse-head train, spindle drive gears, jack in the step, and let it go. That step

ings; then the jack shaft will get to jumping up and down, break the son wheel, and propadly break the teeth out of the jack gear over twist gear. Such things as these twist gear. Such things as these run up the carder's supply bill and

cut his production.

Do you ever have any steel rolls to break? The cause for their breaking is usually because the frame is out of line and level, and the steel rolls are not oiled as they should be. The necks of the rolls wear and the bottom of the stands also wear. Of course, if they wear one-eighth of an inch each, that is equal to one-quarter of an inch out they will the other necks in the level with the other necks in the roll. Considering the heavy weight on the roll, it is in a strain for the weight will hold the neck down in the bottom of the stand. Then it will be out of level one-quarter of an inch. an inch.

an inch.

Tangled roving is another important thing. Now for the causes: Sometimes it is caused by not running enough twist. If you do not run plenty of twist, you are bound to run a slack tension on your ends to get them to stay up. If you are running plenty of twist it must be something else that is tangling your roving. Next, every time a frame hand wraps an end around the presser finger once, it will tangle. Sometimes the taper needs changing one tooth; sometimes the tube ing one tooth; sometimes the tube in the flyer needs to be cleaned out, so it will go down on the spindle tight and not raise up. That will cause some tangled roving. Another cause is that the fixer will not change the tension when he ought to and when the frame hand takes up the sleek on his ends there is up the slack on his ends, there is some tangled roving. Besides these things mentioned, there are a great many more causes for tangled rov-

How often do you clean your steel rolls? Do you wait for a hard cake to form in the bottom of the stand and the roll to quiver, or do you clean them once every nine or twelve months? The quivering of the rolls will cause what we call cut roving. Cut roving, can also be caused by the draft goar heing set cut roving. Cut roving, can also be caused by the draft gear being set too deep. Never allow the frame hand to put in his shell rolls, for there are few section men who know how to pair up shell rolls. Two shells on the same mandrel ought to be the same size. We know that rolls vary from one-eighth to three-sixteenths of an inch, and sometimes more; one small one and one large one to-

gether will cause more cut roving.

Particular care should be taken
to see that the roving traverse is
making its longest stroke without the ends of the rolls. The frame fixer should go around twice each day and examine the roving traverse on all frames to see if it is in good working order, for it only takes one a short while to ruin a set of rolls nd cause lumpy work. The elimination of hard ends

another very important thing in the card room. First start at the slub-ber hand and teach him how to put up ends without making hard ends, and see that he does it. Then see your intermediate hand, and ask him if he gets any hard ends. If he says no, then ask your fly frame hands; if they so no, ask the jack frame hands, If the jack frame hands are not getting hard ends, you

can count on it that you won't have Slubbing spindlesto use so many new rolls. The sav-ing of rolls is quite an important item in the supply bill, and at the same time the fewer rolls you use, the greater your production must

Cleaning is a very necessary thing Cleaning is a very necessary thing around roving frames. On coarse numbers, rois should be cleaned twice per week; backs twice per week and spindles every day; roiler beams twice per day; head end and carriage twice per day. Of course, on fine numbers so much cleaning is not necessary.

on fine numbers is not necessary.

Every overseer should know how much draft to run. Never get your drafts too long if you want the best running work. Excessively long thick and thin running work. Excessively long drafts will cause thick and thin places in the roving, which will give the spinner lots of trouble.

About the most important thing

around frames is a good fixer. He will save a lot of gears and, of course, run a better production than a poor fixer. If a frame hand sees anything wrong with a frame he will tell a good fixer, knowing that the frame will be fixed in a few minutes. Should there be a poor fixer on the job, the frame hand will let the frame run on, knowing that a poor fixer will more than likely keep the frame stopped all day.

W. . E.

#### Number Three.

All roving frames are similar in construction, whether they be slubbing, intermediate, or fine roving frames. Each of them may be con-sidered as drawing frames, as they are for the purpose of reducing the size of the sliver gradually fin and finer without using too large and finer without using too large a draft in any one place, and at the same time to afford a chance of doubling at the intermediate roving frames and jacks essentially necessary for producing a good yarn. The slubber is for making coarse roving, and is the first machine to give twist for increasing the strength of the roving. In mills on the coarser number the slubber and fly frames are the only roving machines required. In mills on No. machines required. In mills on No. 20s to 40s yarn, the slubber, intermediate and fly frame are used, while on still finer numbers the mediate and fly frame are used, while on still finer numbers the slubber, intermediate, fly frame and jack frame are necessary. The work should be made to run well so that there will be as few piecings as possible, and what piecings are made should be made at the front roll instead of at the bobbins. A roving frame has more bearing surface than any other machine in the mill, than any other machine in the min, and for that reason should receive more careful alignment and oiling than anay other. Not only does the lack of oil cause friction and a waste of power, but is the most fruitful cause of break downs and consequent loss of production. The consequent loss of production. The average fixer and frame hand fails to consider the importance of keep-ing oil holes free of choke, all bear-ings well oiled and gears and spindles properly set and adjusted to the best running conditions. Exces-sive speeds for frames are not fa-vored by the best carders. Even as a matter of economy, looked at from every point of view which occurs to experience the warner. occurs to experience the wear and tear in the end and often discounts all the apparent advantages of production, even with the best machinery and expert help. The following speeds will prove very satisfactors:

500 to 000 R. P. M. Intermediate spindies— 800 to 900 R. P. M. Roving spindles— 1,000 to 1,200 R. P. M. Jack spindles-

1,100 to 1,300 R. P. M.

Twist.

Under this head, I will say that no carder of experience imagines that in making good roving or any description he can work from January until December with the same tried on the care county. The car twist on the same counts. The cot-ton and the weather demand adjustment of the twist from time to time, and to give close attention to this as well as to good drawing, in all of the processes, forms an important factor in the successful spin-ning of roving and good yarn. On coarse numbers, when weather conditions are favorable, a little less than standard twist can be used, whie in warm, muggy weather, it is advisable to run two or three teeth more than standard. On fine numbers it is never best to run below standard twist when weather conditions are most favorable unless the staple of the cotton is extra good, while in dog days it will be found economical to put in two to four more teeth than standard. While some carders use as a mul-While some carders use as a multiple for getting twist 1.2, I find here in the South that 1.25 suits general conditions. Rule: Multiply the sq. rt. of the number of roving by 1.25 which will equal standard twist per inch for roving. In general the rule is to add 1-8 in. to the length of the staple for setting front and middle rolls. That is one front and middle rolls. That is, one should set these rolls so that from center to center they will be 1-8 in, farther apart than the length of the staple. This, however, is one of the most important points in producing a good strong yarn. The back and middle rolls on some makes of roving machines are not adjustable and are set 1 1-2 in. from center to center. This generally will open up the stock sufficiently for the front and middle roller. Should this not be sufficient, then one tooth more draft can be added be tween these rolls, which is called the brake draft. However, one has to use his judgment in setting the front and middle rolls as the distance from center to center de-pends on the length of staple, and amount of draft, the amount of twist, the kind or character of the cotton—whether harsh and wiry or smooth and silky, and weight and density of the drawing or roving and the speed of the rolls. On frames where each roll is adjustable, the following setting will be found to give good results on 1.3-16 in. to 1.5-16 in, staple cotton.

1st to 2d 2d to 3d Jacks ..... 1¼ in. 1 9/16 in.
Below will be found a very satisfactory list of drafts for different roving frames:

Slubber ..... 3½ to 4 Intermediate ..... 5 to 5½ Slubber

Fly frames . . . . . . . . . 6 to 6½
Jack . . . . . . . . . 6½ to 7
The lay is proportioned to the square root of the number of roving, and is found by multiplying the square root of the number of roving by 1.2, which will equal the number of strands per inch laid around the bobbin.

(Continued on part Page)

(Continued on next Page)

#### Tension.

This should receive constant attenuon and care from frame hand as wen as overseers as weather con-Oitions will affect the tension of II not promptly attended to the roving will be strained and loss of production will result. Frames should be so adjusted that the tension will not have w be altered during the run of a set. On the humbers all new populars should De gauged, and an over and undersized possells discarded, thus inthe of a set. Top rous should be pleased once each day. Sieel rous treamed twice each week. Migure and back rons should be oried twice each week with a good non-huid on, while top and front steel rons Should be oned regularly once each day. Where shen from rons are used, rous succia be unweighted and taken out of frame each Saturuay. Arbors taken out, wiped and cleaned. Purst thing each monday horning, sucus should be offed and reweighted. Only 24 oz. romer cross and the best quanty same should be used in covering top rous. noving traverses should be kept in running order, otherrunning order, owner-Wise a norlowed out roll Will re-

#### Care and Attention.

The carriage should be kept level, flyers balanced, an poppinis spinule gears properly set, therethes and boppins, worn out gears and strained roving. Every six months there should be a general creaming of top and bottom car-Carriages should be well created and revered, an bearings wen greased and nosters scraped out, and spinares pramped. rous scoured with card el Steel rous scoured with card clothing, rouer stands cleaned and lined up, examined and wen greased, cap bars and rous gone over, an bad rolls taken out and gears in head cleaned ,examined and well offed. Spin-die sockets on livers should be kept trean at all times, thus eliminating fivers spinning around loose on spindles, tangled work ,torn up flyers any pressers. Top and under clearers should be re-covered when worn slick, and every two hours.

en the fingers in making the splict as too much twist and wet piecing causes hard twisted ends, which ruin rolls and cuts production.

Creeling.

In creeling the frame hand should be very careful not to let singles go through and when single or double is made be sure and remove same from the bobbin. They should never be alowed to pull off more than one-half layer of roving from bobbin when creeling. They should be allowed a reasonable amount of waste each day and no more an waste each day, and no more, an account being kept of same.

Doffing.

In doffing each frame hand should pick or fan off the flyers before kinking ends. All roving should be marked before taken off of spindles thus having a check on all bad work

Spindles and bobbin gears should be oiled first doff each morning, steps once every two weeks, all fast parts and compounds once per day, all show parts once a week, lifting

shaft, weight chains and chain pulleys once a week.

In conclusion will say that a frame hand cannot be made in a week, but in order to be a good frame hand it takes months of frame hand it takes months careful watchfulness and painstak ing, coupled with speed and good judgment, to produce a good roving and get the production under vari-o-s conditions. Practical.

#### Number Four.

Today we are entering into a new era in cotton mandiacturing in this country. The Summons-Underwood tarm pill has been passed and we will have to compete with foreign manufacturers of cotton goods far greater degree man we flave ever uone pelore. Frior to this time we have only had coarse goods and yarns to compete with, but with the advent of the new tariff bir, mner counts of yarns are also on the list of goods in which foreigh goods effer min compension. Fernaps you will say that I am gov ting of of my subject in speaking of the tariff and foreign competition, but if I am doing so, it is an to snow the importance of the subject, "The care a The care and operasome men do not reanze the sign. icance of the part that the Traine may be caned upon in meet ing foreign compension. How aid we competition on coarse yarn, my ting down the cost. Surery, but how was it done? Generally it was accompaisned by cutting out one process of roving frames, and using single roving on spinning. Now here is where the importance of the care is where the importance of the care of roving frames comes in meeting competition. If we can run as and fus on single roving, we could also run 40 and 50s on single roving, if we had the right kind of roving. What is the object of using double roving anyway? Is it not to get more even yarn? Now from this it will appear as if it has been conconsidered impossible to run even considered impossible to considered impossible to run even worn slick, and should be picked every two hours.

End Piecing.

In piecing up an end the frame hand snould only twist the end just enough to be able to draw it through the flyer and never moisten the fingers in making the splict.

Considered impossible to run even roving or else we have been using a method that was useless and an added expense. A few years ago talmost all of the mills were using three processes of drawing but now we find very few mills using more than two, and some use only one. Still the work is as good, as is supposed to be, as when we were using three processes. three processes

The primary object in the care of a roving frame should be to get good work, which you can never do if you do not give the frames the proper attention. First, we must have the proper setting of the rolls for the stock being used. Second, we must have good easy running top leather rolls. We cannot have these if we allow them to become gummed up with dirt and neglect these if we allow them to become gummed up with dirt and neglect the proper oiling of sadles and ends of rolls. Personally, I prefer steel rolls as there is little danger of their getting gummed from dirt and lack of oil, and even if the cost is greater at first, they are cheaper in the long run in the reduced cost of covering. Third, we must have the right tension on the roving as it is being wound on the bobbin. If the tension is too tight, it was stretch the roving and make it uneven. Fourth, we must have enough twist to enable the roving to be pulled off the bobbin without stretching. If the twist is not great CLEAN FLOORS MEANS LOWEST FIRE RISK SPECIAL

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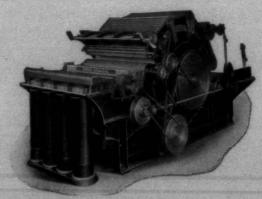
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WRITE FOR INFORMATION

ROCERS W. DAVIS, SOUTHERN AGENT CHARLOTTE, N. C.



Mines in Southwestern Virginia, shows the third step in the mining of coal by modern methods. The seam was first undercut by an electric mining machine, then holes were drilled and light charges of powder touched off. Now, the smoke has cleared away through the ventilation chambers and the miners are engaged in picking down the coal and preparing it for loading into the mine

These miners are 150 feet below the surface of the earth, a

This flash-light photograph, taken in one of the Clinchfield mile or more from the nearest mine opening and five or six miles trom their homes. Mining coal is hazardous work and the inducement is good wages. Good men can earn from \$3.00 to \$10.00 a day. Every known safeguard has been provided for their protection while underground. The company has erected neat and attractive homes, good schools and churches and places of amusement for their improvement and contentment. A vast expenditure is necessary to maintain a community of 15,000 people in this manner. Adv.

enough the roving will run off heavy when the bobbins is first put in, making the yarn lighter on account of the added draft between bobbin of the added draft between bobbin and back roll. As the bobbin of roving decreases in size, the yarn increases in weight. One of the reasons of using double roving is that a sizing to see what weight roving and get good results, the ber roving and get good results, the off the staple being the same as izing to see what weight roving or yarn it is making. Let this run down to about three-quarters full. Weigh the yarn again, let it run to some of using double roving is that after putting in stand-ard twist, set four bobbins of the roving and get good results, the or ving in the next frame and make a sizing to see what weight roving or yarn it is making. Let this run down to about three-quarters full. Weigh the yarn again, let it run to some that is half full, make another weighing, and then weigh from a bobbin one-quarter full. By comparing the weights of all four bobbins, you be the fibres a chance to pull when the bobbin so as to be easily handled without becoming tangled. Having mentioned some of the requirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirements of good roving, we will turn our attention to the frame itguirement and twist, set four towing in the tastile as itguire to sate further apart for the heavy roving or yarn it is making. Let this run down to about three-quarters full. Weigh the yarn again, let it run to some full then or itguirement and twist, set four twis

Having mentioned some of the requirements of good roving, we will
turn our attention to the frame itself.

No fixed rule can be given for
roll settings as this is governed by
three factors, the length of the staple being used, the amount of twist
that is being used in the stock that
is being fed in by the back rolls,
and the weight of the stock being
used. This last factor is one that
used and weight being
the should be no further
trouble at this point.

Twist.

The amount of twist should be
the roving be pulled
off without stretching. The square
root of the hank roving multiplied
off without stretching. The square
root of the hank roving multiplied
by 1.2 will be a good average to go
is often overlooked by carders and
second men, but is of great imporbe more, while for Sea Island and
tance. We cannot use a 30-hank long staples, it can be less. A good

forward, as the case may be. If the forward, as the case may be. If the doff starts off tight, move the cone belt starting point forward; if loose, move it backward. If you still fail to get a correct tension, try changing the gears on the small end of the bottom cone, or gear that drives the sun wheel, as the case may be.

General Care of Frames.

Rolls should be picked once each day, oiled every other day, letting the flow be heavy at each stand so that the oil may reach the necks of the steel rolls. Bobbin gears should be oiled on the second doff of slubbers and intermediates after the frames have become warmed up. This will prevent them from sticking up, as they would do if oiled on the first doff, if on fine counts. Otherwise, they should be oiled as slubbers and intermediates. The front steel roll stands should be oiled morning and noon, just a drop in each stand. It is well to use non-fluid oil for this purpose.

Steps should be oiled once every two weeks with a good heavy oil. It is a good idea to have all oiling (Continued on Page 16)

(Continued on Page 16)

## SOUTHERN TILE BULL

Offices: Room 912 Realty Building, Charlotte, N. C. Published Every Thursday By Clark Publishing Company

> DAVID CLARK Managing Editor

D. H. HILL, Jr. Associate Editor

#### SUBSCRIPTION RATES

One	year,	payable	in ad	vance	 	 	 	 	8	1.0
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Contributions on subjects pertaining to cotton, its manufacture and distribution are requested. Contributed articles do not necessarily reflect the opinion of the publishers. Items pertaining to new mills, extensions, etc., are solicited.

#### ADVERTISING

Advertising rates furnished upon application.

Address all communications and make all drafts checks and money orders payable to the Clark Publishing Company, Charlotte, N. C.

Entered as second class matter March 2nd, 1911, at the post office at Charlotte, N. C., under the Act of March 3d, 1879.

#### THURSDAY, NOVEMBER 6

#### Notice of Strikes.

The Value of the Contest.

the right which we claim for ourselves which is that of an editor to run his publication to suit himself but we do regret to see recently in other publications notices of several strikes among Southern cot- article upon that subject. ton mill operatives.

policy of the textile publications of that many more will enter before the South not to publish notices of the time limit which is Nov. 15th. strikes and we believe that that of strikes occuring among mills.

Publishing an account of our strikes suggests to the minds of the operatives of all the mills a line of action which they may take upon practical. slight provocation, or misunder-

but in the case of strikes publicity articles contributed to this contest reading. can do no good and will tend to de- are practical because they come velop a tendency that will disrupt from the men who are operating the good feeling which now exists roving machinery for their living between the mills and the em- and know how to handle it successployees.

We give to our contemporaries found the first of a series of articles, on "Care and Operation of effect of such a contest is its value Roving Frames," which have been to the men who take part in it. written and submitted by practical

Up to date twenty men have en-

policy has been to a large extent superintendents, overseers and secbe crude and rather elementary

The average student of textiles men whose knowledge is largely fully.

as we are now running but we doubt if there is any other means of giving as much valuable instruction to in our Southern mills.

Not only will they have an opportunity of reading closely the articles as they appear but we also will after the contest is closed print will after the contest is closed print Winthrop College, Rock Hill, goes the entire series in book form, and from mill to mill and holds meetwidely distribute them as premiums to subscribers.

We have previously run contests upon the following:

"Opening, Mixing and Picking." "Management of Help."

"Practical and Efficient Spinning.

Before launching the Southern and Victoria Mills at Rock Hill. Textile Bulletin, our editor, who Mr. Carbery organized a club originated the idea of these contests also ran contests for another journal upon the following subjects:

Cause and Prevention of Uneven Yarn.'

"Care of Cards."

"We estimate that 12,000 of these books were printed and that fully 8,000 of them have been distributed ii. the Southern cotton mills.

These books are passed from hand to hand and being read by many men have a great part in increasing the textile knowledge of the men in the mills.

young men who are learning because of they are practical and give the experience of men who have traveled On page 6 of this issue will be the road which they are traveling

Another and by no means a small

In order to write intelligently mill men in competition for prizes upon a subject, a man must put his which we have offered for the best mind upon it and ideas come to him in such times that materially increase his knowledge, and we have For many years it has been the tered the contest but it is probable noted the rapid advancement of men who have entered contests in

The writers of these papers are not always in the exact words of the writers, for some of the most the cause of such a small number ond hands of Southern cotton mills practical and efficient men have our and while sime of the articles may little education and write and spell poorly. We tell them that what they are the ideas of men who have we want are practical ideas from had long experience with roving ma- practical men and we shape up the chinery and are therefore intensely articles by correcting the spelling and punctuation.

The present contest for the best has as his text books the writing of articles on "Care and Operation of Roving Frames" promises to be very We believe in publishing the news theoretical but a collection of the interesting and will be well worth

#### Agriculture in the Mill Villages.

Department has put in operation a what they eat right in their own movement to interest the mill vil- gardens.—Charlotte Observer.

lage children in something besides lage children in something besides to the industry, of a contest such their work in the mill. About one employed as mill village demonstrator for South Carolina. He has been very industriously working to orthe young men who are growing up ganize the girls into Tomato Clubs and has met with splendid success. This work is necessarily small scale, as the mill gardens are

> Mr. Carbery, whose office ings with the people. He usually has a stereopticon with which he illustrates his lectures, thus making them more interesting. After the lectures he makes an effort to organize the girls into a Tomato Club and usually succeeds.

A better idea of his work can be given by relating his work at some place, let us take the Arcade

Mr. Carbery organized a club of girls with 31 members. Each girl had a garden of 24 tomato plants. Mr. J. M. Ferguson was engaged to assist in the work at those mills. These small plots, under the supervision of Mr. Ferguson were worked by the girls during the moments they were not engaged in the mill. Up to October 16 these 31 girls had gathered from their plots of 24 plants each 3,864 pounds of tomatoes, most of which amount has been canned.

One little girl, Miss Ruth Sides, 12 years oig, made her own canner. She took an ordinary scanite bucket, got a tin-bucket lid that was ne men in the mills.

about the same size as the bottom. They are of special value to the of the bucket and punched this full holes and placed in the bottom of the bucket.

> She then secured a lid that fitted tightly over the top or the bucket and her canning outfit was complete. On this canner she successfully canned 24 quarts of tomatoes.

Mr. Carbery had a mill village fair at the Arcade and Victoria Mills October 11 and 12 which was counted one of the best of its kind ever held in the South. This exhibit was moved to the York coun-This exty fair where it attracted as much attention as any other exhibit on the grounds. Mr. Carberry was as-The articles as they appear are sisted in this exhibit by four of the mill village girls, dressed in their club uniforms of white trimmed in There was on display needle red. work that would have done justice to an artist, also a display of implements made by one of the mill very useful in getting at some of the hard places about the mill machinery. In the corner of the exhibit was the girl's canning exhibit. Their cans were banked in tiers and trimmed with green and ripe tomatoes, while red and blue baby ribbon floated untrammeled down

The purpose of this work is two-fold: First, to give the girls a diver-sion that will lift their minds to higher ideals than mere work and loitering; second, to teach the mill The United States Agricultural people that they can grow much of

### PERSONAL NEWS

Jas. Holmes is now overseer of Air, Ala. weaving at the Barker Mills, Mo- C. C. C. bile, Ala.

S. J. Webb has resigned as su- Ga. perintendent of the Danville Knitting Mills, Bon Air, Ala.

Chas. Davis has accepted a posi-tion with the Unity Cotton Mills, LaGrange, Ga.

accepted a position with the Summerville (Ga.) Mill.

Wm. Heggood is now master me-

Kershaw is now master mechanic at the Dwight Mfg. Co., Alabama City, Ala.

F. Grant has resigned as second hand in spinning at the Lydia Mill, Clinton, S. C.

William Dellinger, of Caroleen, N. has accepted a position at Statesville, N. C.

M. Johnson has accepted the position of overseer of weaving at the Dixie Mills, LaGrange, Ga.

J. C. Waters has resigned as superintendent of the Park Cotton Mills, LaGrange, Ga.

Marshall Dilling, superintendent of the Avon Mill, Gastonia, N. C., has been quite sick.

W. C. Haney, of the Poe Mill, Greenville, S. C., has been visiting at Westminster, S. C.

C., has become second hand at the Lumberton (N. C.) Mills.

J. M. Waddleton, formerly of Fayetteville, N. C., has become over-seer of weaving at the Highland Park Mills, No. 1, Charlotte, N. C.

Joe Cocker has been promoted from card grinder to section hand in carding at the Clifton (S.C.)

J. P. McCraw has resigned as J. F. Kersey has returned to his overseer of weaving at the High-former position as superintendent land Park Mill No. 1, Charlotte, N. c. of the Danville Knitting Mills, Bon

C. C. Churchill has been promoted from second hand to overseer of carding at the Bibb Mills, Macon.

Chas. Knight has been promoted from section hand to second hand spinning at the Gainesville (Ga.) Milla

Homer Riddle, of Clinton, S. C. Chas. Harlow, of Lindale, Ga., has has accepted the position of second hand in spinning at the Lydia Mill, Clinton, S. C.

chanic at the Columbus (Ga.) Mfg. C., has accepted the position of sec-retary of the Y. M. C. A. at Kannap-Shearin, of Rocky Mount, N. olis, N. C.

> P. Sparks, formerly of Shawmut, Ala., has accepted the position of superintendent of the Park Cotton Mills, LaGrange, Ga.

> David Clark, editor of the South-ern Textile Bulletin, is an a twoweeks' business trip to the New England States.

accepted a position in the machine tersville, N. C. shop of the Anderson, (S. C.) Cot- Clarence Position in the machine term of the Anderson, (S. C.) Cot- Clarence Position and Clarence Position and

J. D. Tice, general manager of the Anderson (S. C.) Cotton Mills has returned home after spending some time in a sanitorium at Atlanta, Ga.

H. W. Owens has resigned as secretary of the Y. M. C. A. at Kannapolis, N. C., to accept a similar position at Ware Shoals, S. C.

R. Simpson, of Bladenboro, N. his former position of overseer of has become second hand at the weaving at the Osage Mills, Bessemer City, N. C.

W. C. Carter has been promoted from section hand to second hand in carding at the Bibb Mills, Macon. Ga.

A. Marshall, of Charlotte, N. C., has accepted the position of second hand in weaving at the Patterson Mill, Rosemary, N. C.

CARDS SPINNING DRAWING FRAMES, COTTON MILL MACHINERY MASON MACHINE WORKS TAUNTON, MASS. EDWIN HOWARD, Southern Agent Greenville, S. C. **MULES** COMBERS. LOOMS. LAP MACHINES

R. B. Rodgers, of the Dresden Mills, Lumberton, N. C., is now grinding cards at the Lumberton Mills, of the same place.

W. T. Hodges has resigned as second hand in weaving at the Patterson Mills, Rosemary, N. C., and moved to Danville, Va.

S. Armfie'd has resigned as night carder at the Statesville (N. C.) Mills, to become overseer of carding at the Necronsett Mills, Cumberland, N. C.

Sam Dammus has resigned as superintendent of the White City Mills, Athens, Ga., to accept a position with the Athens Mfg. Co., of the same place.

H. D. Tolbert, formerly overseer f carding at the Fort Mill (S. C.)

ferred from overseer of No. 1 spinning to a similar position in the No. 2 room of the Profile Cotton Mills, Jacksonville, Ala.

W. P. Sanders has resigned overseer of carding at the Bibb Mills, Macon, Ga., to accept a similar position with the Willingham Mills, of the same place.

F. D. Bullock, for 10 years secretary and treasurer of the Columbus (Ga.) Mfg. Co., is now secretary of the Hardaway Construction Company at Mathis, Ga.

J. E. Williamson, formerly manager of the Worth Mfg. Co., Worthville and Central Falls, N. C., has been elected secretary and treasurer and manager of the Holt-Morgan Mills, Fayetteville, N. C.

OVERFLOW PERSONALS PAGE 16

### Superintendents and Overseers

Thomaston Cotton Mills.

Thomaston, Ga.

A. T. Matthews....Superintendent A. E. Massey ... . Carder and Spinner Robert Adams.......Cloth Room John Hewitt......Master Mechanic

Lang Cotton Mills.

Lannett, Ala.

W. R. ReidSupe	rintendent
P. J. Sprayberry	Carder
J. T. Howe	Spinner
Sol. Knight	Weaver
G. E. Reeves Master	Mechanic.

Gaffney Mfg. Co.

Gaffney, S. C.

W. R. Tattersall	Supt.
M. B. Tennyson	arder
J. W. KennettSp	inner
L. A. TrippeW	eaver
G. C. MeredithCloth	Room
T. W. Little Outside Ove	rseer
G. S. MeltonMaster Mec	hanic

Irene Mills.

Gaffney, S. C.

J.	R.	Mallory Supt.
M.	0.	Fowler Carder
J	W.	Godfrey Spinner
J.	A.	Graham
H.	A.	Holland Cloth Room
A.	D.	ThackstonNight carder
E.	N.	McGuinn Night Weaver
C.	F.	Humphries Master Mechanic



## Cramer System of Air Conditioning

WITH OR WITHOUT

Automatic Regulation of Humidity and Temperature

Moderate in Cost

Cheap to Operate

Yields Big Returns

STUART W. CRAMER

CHARLOTTE,

NORTH CAROLINA

## MILL NEWS ITEMS OF INTEREST

Winder, Ga .- It is reported that the Winder Cotton Mill will be financially reorganized.

completion and will soon be ready for occupancy.

Taylorsville, N. C .- The Watts Manufacturing Co., recently re-ported as planning an addition, have installed 200 spindles and will addd 4,000 more in the near future.

Lanett, Ala.-Cylinder head blew out of No. 1 engine head in Mill No. 1 of Lanett Cotton Mills causing a shut down of part of machinery for several weeks.

Henderson, N. C .- The Carolina to their bagging plant to cost about \$3,000. It will be 60x30 feet, of brick construction.

LaFayette, Ga.—A part of the new machinery for the Walker County Hosiery Mills has been received and put into operation and the rest of the new equipment is being installed as fast as it arrives.

Manchester, Ga.—The Manchester Cotton Mills will build a two story brick addition, to cost about \$12,000. They have awarded the contract for the construction to Frank Granby of Greenville, S. C. Walker and Chae, of Atlanta, are the architects.

Hagerstown, Md.-Cromer Brothers will build a 40x39 foot addition to their silk plant. The basement of the addition will be used as a dyeing department and the remainder will be used in connection with the raw silk department.

Charlottesville, Va. - The Charlottesville Silk Mills, recently noted as incorporated and organized, will expend \$20,000 for their machinery. The plant will be two stories high. 200x64 feet. The equipment will include 42 looms with individual electric drive.

Plana, Teras.—It is reported here ing that D. C. Timmins will organize a company to build a cotton mill. has not yet determined the details of the new enterprise, but active work is expected to start at an early date.

Fort Mill, S. C .- At an unknown hour Wednesday night some party or parties entered the cellar of the weave room of the Fort Mill Mfg. Company's mill No. 1, and with knife proceeded to slash the main 24-inch drive belt and another and smaller belt was slashed in such a manner as to be rendered practically worthless, it was said. This is siery yarns and there is a provision the third time within a year the in their charter giving them the company has suffered such dam-right to do a general wholesale and

LaFayette, Ga.—The Fortune Hosiery Mills, lately mentioned as or-Gastonia, N. C.—The new brick and install 60 knitting machines and addition to the Ozark Mill is nearing electric power agricument. ganized and planning to start a howill manufacture 300 dozen pairs of hose a day.

> Demopolis, Ala.-The Demopolis Cotton Mills have been incorporated with a capital stock of \$30,000. The incorporators are W. W. Brame, of Montgomery, who will be president of the company; F. H. Elmore, vicepresident, and Geo. D. Mentz, secretary and treasurer. It is understood that the new company is preparing plans for the erection of a cotton

Knoxville, Tenn.-By declaration Bagging Co. will build an addition of a semi-annual dividend of 5 per cent, the stock of the Brookside Mills, is placed on a yearly rate of to per cent. The disbursement is payable Nov. 15. Previously stock was on a annual basis of 8 per cent. The company also announces an increase in the outstanding capital stock from \$900,-000 to \$1,200,000.

> Ridgedale, Tenn.—The Davis Hosiery Mills, lately reported as organized here, will install 100 knitting machines and electric power drive for their plant, which is a branch of the Chattanooga company. They have already ordered their machinery and will erect a 200x64 foot mill, brick construction building.

> Quitman, Ga. — The decision of Referee J. F. McCracklin, in the case of the sale of the Atlantic and Gulf Mills, has been upheld by Judge Shepperd, except in the case of small part of the real estate. The case was reviewed in Pensacola. Fla., Bennet and Harrell representing the Bank of Quitman and Branch and Snow representing Trustee Young.

Fayetteville, N. C.—It is reported that the Holt-Morgan Mill is makarrangements to secure new selling agents. The mill has 100 broad looms, 354 narrow looms and 10,000 ring spindles and makes fine ginghams, madra sand cheviots. E. Williamson has recently become ery has been under way, and while manager.

Greenville, N. C.—The Greenville Cotton Mills, mentioned last week as being organized here, have been incorporated with a capital stock of \$250.000, of which \$90.000 has been subscribed by R. R. Cotten, W. H. Norris, J. G. Moye and others. They will manufacture cotton horetail export trade.

Greenville, S. C .- A cooling system for its reservoir has recently been installed by the F. W. Poe Manufacturing Company. The essential principle of the system is in the method of cooling the water by continuously throwing the water into the air.

The cooling system was installed Wm. G. Gregory, chief engineer and master mechanic of the manufacturing company.

The apparatus consists of an arrangement of 75 spray nozzles with the capacity of throwing 4,000 galions of water to a height of 12 feet every minute. In seven and one half hours the entire contents of the reservoir are thoroughly cooled, every drop having been thrown into the air for 12 feet. The machinery is operated by a 35 horse-

Charleston, S. C.—The organization of the Royal Mills, purchasers of the properties of the Royal Bag and Yarn Manufacturing Co., in this city, it is expected, will be started again in the next few weeks, according to an announcement from the new management.

While in operation the Royal Bag and Yarn Manufacturing Co. employed some 537 people. Cotton bagging was manufactured on a large scale from raw material imported direct from India. Later on a cotton manufacturing plant was installed and the company manufactured its own cotton cloth for the bags, which previously were made from cloth purchased from various mills.

Erected in 1901, the plant repres ented an investment of \$562,000. Upon the failure of the concern two years ago the property was bid in for approximately \$100,000 by Capt. W. Wagener and others of Charleston.

Anderson, S. C .- The Cox Mills, which were recently bought in by Wellington Sears & Co., of Boston. as noted, are to be reorganized and new machinery installed for the manufacture of duck. The plant formerly manufactured sateens.

For the past two weeks the work

taking out the present machinno announcement has been made to the effect, it is understood from a reliable source that the new owners will put the plant back into operation just as soon as the machinery can be changed. Just how much the present equipment will be A large taken out is not known. part of it is new, having been installed only a short time before the mill closed down. It is now being placed in the hands of machinery dealers in Charlotte and the machinery for the new product is ex- gage bond issue is placed the Cotpected to arrive within a short time. ton Mills Company will be charter-

Oklahoma City, Okla. nary plans for organization of the before noted \$10,000,000 cotton mill company, the acquiring of lands and the funding of the project have been in the making for two years. The original company, The Cotton Mills Security Co., was chartered in November, 1911, with a capitalization of \$5,000,000, and has secured title to 5,700 acres of land northwest of the city.

W. B. Whaley, promoter of number of Eastern cotton mills, who was sent east to float the bonds, after detailing the methods of cotton mill promotion and financing, described the present status of the project and asked that action be taken on three things necessary to the financing of the company; first, the appointment of a directorate of responsible men to dictate its affairs; second, to indorse an appraisal of the land held by the ompany, which places its value at \$125 an acre; and third, to provide funds to send himself to Eastern money markets to secure the necessary credit.

After details of the plan were fully discussed all three of Mr. Whaley's requests were granted.

This board will not be ample, personally, for the financing of the project, but will oversee the conduct of its affairs and assure its in-

In outlining the program for the development of the project Mr. Colcord first read of numerous in-dorsements of Mr. Whaley as a builder of cotton mills and organizer of cotton mill companies from men with whom he has been associated in that line for the past 25 years. Testimonials from bankers and cotton mill men of the Atlantic coast where Mr. Whaley has established a long line of mills recommended his ability and integrity.

Mr. Whaley explained in detail the methods he would use in financing the concern. The company has created a first mortgage real estate bond issue of \$300.000 or \$52.63 per acre against the 5,700 acres of land owned. He proposes by means of a contract with a dry goods commission house in the East, calling for the handling of ten years' output from the mill, to arrange for \$1,000,000 credit.

From this credit \$300,000 secured by the bond issue will cancel all obligations against the land and the funds will be provided for the procedure of operations.

The company has created the Commerce Trust Co., of Fan-sas City, a betterment bond issue of \$5,000.000. This will pay off the first mortgage bond issue, pay for the original cost of the land and will leave \$4,300,000 for the betterment of the property.

As soon as the \$300,000 first mort-

ed to equip a mill with 600,000 spindies and 15,000 looms.

According to Mr. Whaley's plans, 25 per cent of the mill capacity will built, installed and put in operation in the first year, employing 2,500 operatives. The whole plant to be in operation in three years, mploying 8,000 operatives and with local expenditure or \$8,000,000 annually ( and a weekly pay roll of

After the explanation of the plans and a discussion, \$1,025 was subscribed within a few minutes to provide for the expenses of a trip to be made East by Mr. Whaley to make a contract for the output of the mill to be handled by a dry goods commission house.

#### Will Not Use Colored Labor.

A report has been printed in several papers to the effect that the new Highland Cotton Mill at High Point, N. C., would be operated by colored labor, but we are advised by the management of that mill that the report is false and that it will be operated entirely by white labor. They expect to have the mill in operation early in December.

#### Prof. Nelson's Son Injured.

Thomas Nelson, seven-year-old son of Prof. Thomas Nelson of the textile department of A. & M. College, Raleigh, N. C., had his skull fractured last Thursday by being run, over by an automobile occupied by negroes coming from the negro fair. The driver was a ne-gro. The child's condition is serious, but he is expected to recover.

#### Sea Island Cotton in Georgia.

The growth of Sea Island cotton in Georgia is the subject of a new and interesting measure which has just been introduced by Senator Hoke Smith in the United States senate. The measure proposes to appropriate \$100,000 to cover the expenses for the national department of agriculture to conduct investigations and make experiments in the cultivation of the sea island variety, in Georgia, Florida and South Carolina, with a view to the improvement of the seed.

#### German Textile Mill Activity.

During the current year amount of new capital invested in German textile undertakings in considerably in excess of that for any such previous record.

The average rate of dividends paid by most branches of the industry shows a marked advance compared with last year. During



We believe in making a thing to sell so that it doesn't need much attention; but when that attention is needed is will not be dreaded by complicated mechanism.

#### THE TURBO HUMIDIFIER

is made to wear-and easy to repair. I saw a green man who had never seen the Turbo system before get up on a step ladder, remove and replace a head in less than four minutes.

Further, we do not make our money in repair parts. We can't. There are too few needed.

Get Turbofied-and satisfied.

THE G. M. PARKS CO. FITCHBURG, MASS.

Southern O Bee, No. 32 West Trade St., Charlotte, N. C. B. S. COTTRELL, Manager

The Byrd Knotter Price \$20.00 Simple of Operation **DurabilityGuaranteed** Small Repair Cost Manufacturing Co.

the period January-August, 1913, the average rate of dividend paid by 216 textile companies, representing an aggregate capital of \$98,341,-000, works out at 8.6 per cent, against 7.1 per cent last year.-Consular Reports.

#### Scotch Tweed Industry.

The South Scotland tweed industhe silk, lace, hosiery and other intry, which for two or three years has been very active, is now somewhat depressed. During the last three months orders have fallen off. At the annual meeting of the Manufacturers' Corporation in Galashiels, on October 9, it was stated by the chairman that the depression was due in some measure to the waste of capital caused by the Balkan war and the mobilization of great masses of men by Austria and Russia, but that the principal cause of the loss of trade was the decree of fashion in favor of fine Saxony makes of cloth and against cheviots thus giving worsted manufacturers an opportunity which they were strenuously improving, while tweed manufacturers were facing a winter of poor primes.

In regard to the probable effect upon the Scotch tweed trade of the reduction of the American tariff on woolen goods (which will take effect on Jan. 1 next), there are differences of opinion. The new American tariff is at present considered by most mill owners an uncertain element in the situation, mainly on account of (1) the free-listing of wool, which, while lowering prices to American mills, may increase prices in this market; (2) the American preference, for the time being at least, for worsted goods; and (3) the competition of cheaper English and other European cloths .- Consular Reports.

#### Textile Wages.

Wages in the cotton, woolen and silk manufacturing industries the United States during the past 23 years, according to Government statistics, have increased to a considerable extent, while the nominal full time hours per week for the occupations combined principal have decreased, according to the bureau of labor statistics. These industries employ approximately 333,-000 persons.

As regards recent years, wages in the cotton industry were 4.5 per cent lower in 1909 than in 1907; after 1909 they advanced continuously. The nominal full time hours per week in the principal occupations combined, not including finishing in the cotton industry, for 1912 showed

#### AMERICAN MOISTENING COMPANY

DURHAM, N. C.

BOSTON, MASSACHUSETTS WILLIAM FIRTH President

FRANK .B. COMINS, Vice-Pres. & Treas. MOISTENING THE ONLY PERFECT SYSTEM OF AIR

COMINS SECTIONAL HUMIDIFIER JOHN HILL Southern Represntative, Third Nat. Bank Building, ATLANTA, GEORGIA

## Cotton Goods Report

now being asked. Mills are watch- overburdened. ing the cotton market and seem more willing to take concessions on future orders. The unsettled condition of the cotton market is still the dominant factor in was situation.

In the cottion goods ends, the market is rather quiet Just at present. Buyers are studying the fu-ture and are slow at making any move to cover their forward needs Demands for fine and fancy goods have been fair. There is a steady call for novelty goods, but orders are small. Printed crepes have sold extremely well. Silk striped poplins are showing up well and buy-ers are asking for this class of It is stated in some quarters that the gemand for plaids is fall-ing off, and that they will not be good sellers for the spring. Up to the present time, imported goods have not played an important part in the orders for spring. The leading converters of domestic fabrics do not feel foreign competition as yet, and the opinion is growing that the new tariff will not have as great an effect upon converters as was first expected.

Trading continued only moderate during the week in the Fall River print cloth market, with concessions offered on some styles, but prices generally have held firm. The total sales are estimated at about 100,000 pieces, 40,000 of which were spots.

The condition of the cotton market has again had its effect in print cloth trading, and manufacturers for the first time in weeks, have been shading prices. Concessions have not been general though, and were made only on certain styles where good sized orders were placed. It required orders of 5,000 pieces or more to bring any shading in quotations, and then the reduction never amounted to more than a sixteenth of a cent. Medium odds and narrow printers' styles were those showing the concessions.

The demand for spots has been considered fair, but by no means plentiful at this season of the year. Contracts generally are covering a period of ten weeks and some goods have been placed for delivery Brought into sight thus fa into February.

The mills under present quotations are ready to go ahead with contracts upon the present basis, mania. but the buyers are holding off for better terms. They have been a litit?"

"Indeed; what is she taking for better terms. They have been a litit?"

"Anything that looks good to week than a week ago because the her."-Ex.

New York.—The demand for gray market is a little easier and congoods during last week was only cessions are offered. As the mills moderate. On goods sold on con- are now fairly well sold up for the tract, prices have been somewhat remainder of the year it is expected easier. On spot goods, however, the that prices will continue to hold market continues generally firm as firm, except as the case was this the mills are sold up through the week, where good sized orders are first of the year. Converters were placed ahead. The fairly good tradwatching the cotton market and did ing of the last few months has not seem inclined to go ahead and cleaned the mills up on much of the take goods on contract at the prices accumulation of stocks and none is

Prices	were	as 10	llows	ın	New
York:					
Prt clth.	28-in	std	4		
28-in.,	64x60s.		3 3-4		
L would	00-00		N 1 D		

ğ	4-yard, 80x80s	7	1-2	
	Gray goods, 39-in., 68			
	x72s			
	381/2-in. std	5	5-8	
	Brown drills, std	8	1-4	
	Sheetings, southern			
	std	8	1-4	

4-yard, 48x48s 6 1-4	
4½-yard, 44x44s :. 5 3-8	to 5 1-2
5-yard, 48x52s 5	to 5 1-2
Denims, 9-oz 14 1-2	to 17
Stark, 8-oz. duck14	
Hartford, 11-0z., 40-	
in. duck 16 1-2	
Ticking, 8-oz 14	
Stand. fancy print. 5 1-4	
Std ginghams 6 1-2	_

### Kid fin. cambries .. 5 3-4 to 4 7-8 Weekly Visible Supply of American

Fine dress ginghams 8

October 31,	1913	3,155,895
Last week		2,807,791
Same date	last year	3,580,234

#### Weekly Cotton Statistics.

New York, Oct. 31.-The following statistics on the movement of cotton for the week ending Friday, October 31, were compiled by the New York Cotton Exchange:

WEEKLY MOVEMENT	
Port receipts	572,683
Overland to mills and Can-	
ada	38,639
Southern mill takings (es-	
timated)	85,000
Gain of stock at interior	
towns	30,876

towns	30,876
Brought into sight for the	
week	727,198
TOTAL CROP MOVEM	ENT.
Port receipts	3,416,083
Overland to mills and Can-	
ada	122,539
Southern mill takings (es-	
timated)	590,000
Stock at interior towns in	
cess of Sept. 1	380.440

			4,509,062
"Mrs.	Brown	has the	klepto-

"Anything that looks good to

#### GRINNELL WILLIS & COMPANY

44-46 Leonard Street, New York

#### SELLING AGENTS

BROWN AND BLEACHED COTTON GOODS FOR HOME EX-PORT MARKETS

### RICHARD A. BLYTHE

Cotton Yarns Mercerized and Natural ALL NUMBERS

505-506 Mariner and Merchant Building

PHILADELPHIA. PA.

## The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

### J. A. PRIDE

General Industrial Agent, Seaboard Air Line Railway NORFOLK, VIRGINIA.

When you enjoy the economy of lubrication provided by



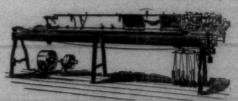
you discover that increased production means a great deal more than a slightly lower lubricant expense.

Figure out the saving involved in a 5)% reduction of oil stains in your Carding, Twisting and Spinning. Then write us for test samples of NON-FLUID OIL for comb-boxes, Roll Necks and Twister Rings.

New York & New Jersey Lubricant Co. 165 Broadway, NEW YORK

## BANDING MACHINES

COLE BROTHERS PAWTUCKET, R I.



The only automatic machine in the world for making loop bands for spinning frames. Superior quality of bands without any cost of making. All bands exactly alike and no stretch of bands after they are put on. Saves child labor.

Also Beaming Machine to beam on to slasher beams.

## The Yarn Market

Philadelphia, Pa.—Business in the Carpete and Upholstery Yarn in Dealers in Mill Stocks and other rn market last week was spotty. yarn market last week was spotty. Some dealers had a fairly good week, while others said they did very little. There were a few sales of 25,000 to 50,000 pounds. Speaking of business for the month just closed, a good many dealers said that business for October was satisfac-tory, and that the quantities charged up for delivery were large. The receipts of yarn from the South continue to be larger but there is no accumulation of stocks in this market. The yarn goes into the hands of manufacturers about as fast as it arrives, and there is a scarcity on one or two numbers.

Southern spinners of knitting yarns are rather well sold up for the next two to four months and they are very firm on holding for full quoted prices. Some are asking on the basis of 23 1-2 and 24 cents for 10s, and say that prices will go still higher. Some spinners are quoting 24s Southern frame spun cones at 27 and 27 1-2 cents. 26s at 27 1-2 and 28 cents and 30s at 30 cents.

On single and two-ply combed peeler yarns the demand is light. Prices are so high that manufacturers buy only when in real need
of the yarns. Dealers who make a Southern Frame Spun Yarn on Cones
specialty of handling combed yarns say that knitters are fairly well covered on them for the business bey have on their books and consequently spinners are sold up to the same extent. The demand for both single and ply combed yarns is much less than the production. and it will only be a question of time until spinners have to reduce prices sufficiently to attract buyers, is the way the situation has been summed up by one dealer.

Mercerized yarns are very quiet and the competition for what little business there is is very sharp. A sale of 50-2 mercerized on cones as made for 57 cents, and 10 cases re sold from stock for 55 cents; -2 cones sold for 47 and 48 cents; -2 cones sold for 67 cents and 70sold for 73 cents.

	Southern Single Skeins.		50s
18	to 8s 21 1-2-		60s
118	22 —		
128	22 —22	1-2	Sing
is	22 1-2-23		Smill
lús	23 1-2-24		20.
20s.	25 —		20s
26s	26 —26	1-2	24s
30s	27 1-2-28		30s
150			40s
- 10	Southern Two-Ply Skeins:		50s
88	21 —21		60s
108	21 1-2-		
12s	22 —22	1-2	Two-
148	22 1-2-23		
16s			20s
20s	25		24s
248	90	TE UT	20-

34

40s

-26 1-2

MAN STANDARD	
9-4 slack	22 —
8-4 slack	21 1-2-22
8-3-4 hard twist	

* 34	Southern	Smyre	warps.
88			21 1-2-
10s	********		22 —
			22 1-2-
148			23 -23
16s			23 1-2-24
20s			24 1-2-25
248			26 —
268	********		26 1-2-
30s			27 1-2-28
408			33 1-2-

#### Southern Two-Ply Warn

88		21	-		
10s		22	1-2-		
12s		22	1-2-	-23	
148		23		-23	1-2
16s		23	1-2-	-24	
20s	***********	24	1-2-		
248	. * *	25	1-2-	-26	
26s		26		-26	1-2
30s	******	27	1-2-	-28	
40s		34			

88		22 -22 1-2
10s		22 1-2-23
128		23 -23 1-2
	************	
16s		24 -24 1-2
188		
20s		
	******	25 -25 1-2
248		
26s		
003		

#### Two-Ply Carded Peeler in Skeins:

		STATE OF THE PARTY	
20s		26	-26 1-
228		27	
248		27	1-2-
268	********	27	1-2-28
30s		29	-29 1-
36s	*********	32	
40s	******	34	1-2-
50s		40	41
60s	********	50	

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20s					2000	1000			-		-		The state of the s			A CALL	100 V		50	10		1-	2		-3	4		
245																												
10s																												
i0s			17/4	1															A	1					-4	1	1	
i0s				0															4	6		1-	2		4	7		
30s		10						No.						100					1000	3				100	631	5		
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#### -Ply Combed Peeler Skeins:

20s	*************	31 1-2-32
245		32 1-2-33
30s		36 -36 1-2
	************	
50s	***************	45 -47
60s		53 —55
80s	*********	6870

## A. M. Law & Co. F. C. Abbott & Co

#### Spartanburg, S. C. BROKERS

Southern Securities

South Carolina and Georgia Mill Stocks.

	В	id	Asked
	Abbeville Cot. M., S. C.		100
	Aiken Mfg. Co., S. C	35	
	Amer. Spinning Co., S. C.	154	
	Anderson C. M., S. C., pf	90	151
	Arcadia Mills, S. C	91	0=
	Aragon Mills, S. C	400	65
	Arkwright Mills, S. C Augusta Factory, Ga	100 35	103
	Avondale Mills, Ala	115	120
	Belton Cot. Mills, S. C	100	
	Brandon Mill, S. C.,	75	
	Brigon Mills, S. C		61
	Calhoun Mills, S. C		85
	Capital Cot. Mills, S. C.	100	85
	Chiquela, S. C., com Clifton Mfg. Co., S. C	105	115
	Clifton Mfg. Co., S. C., pf	100	
)	Clifton Cot. Mills, S. C.		125
	Courtenay Mfg. Co., S. C.		90
		921/2	
	Cox Mfg. Co., S. C	***	100
2	D. E. Cinverse Co., S. C.	85	
	Dallas Mfg. Co., Ala	* ***	100
	Darlington Mfg. Co., S. C		65
	Drayton Mills, S. C	30	40
	Eagle & Phenix Mill, Ga.	80	90
2	Easley Mill, S. C	180	
	Enoree Mfg. Co., S. C	25	50
2	Enoree Mfg. Co., S. C., pf		100
	Enterprise Mfg. Co., Ga.	65	
2	Exposition Mill, Ga		150
	Fairfield C. Mills, S. C.	62	70
2	Gaffney Mfg. Co., S. C Gainesville C. M. Co., c'm	02	75
	Glennwood Mills, S. C		141
	Glenn-Lowry Mfg. Co.,		
	S. C	101	
	Glenn-Lowry Mfg. Co.,		
	S. C., preferred	00	
	Gluck Mills, S. C Granby Cot. Mills, S. C.	8(	,
2	Granby C. M., S. C., pfd	• •	
-	Graniteville Mfg. Co., S.		
	C	140	145
	Grendel Mill, S. C		. 100
2	Hamrick Mills, S. C		. 102
	Hartsville C M., S. C.N	170	)
	Inman Mills, S. C		. 105
	Inman Mills, S. C., pfd.		. 100
	Jackson Mills, S. C		. 90
	King, John P. Mfg. Co.,		, 20
	Ga	8	0 86
	Lancaster C. Mills, S. C.		
	Lancaster C. M., S. C., pf	9	
-2		71	
	Laurens Mill, S. C	1	
	Limestone Mill, S. C	12	
	Lockhart	4	
	Marlboro Mills, S. C	6	
	Marlboro Mills, S. C Mills Mfg. Co., S. C	11	0
	Mollonon Mig. Co., S. C.	146	
-2	Monaghan Mills, S. C.,.		
	Newberry C. Mills, S. C.		
	Ninety-Six Mills, S. C		
	Norris C. Mills, S. C		
	Orangebury Mfg. Co., S.		
	The second secon		

### Charlotte, N. C. BROKERS

Southern Mill Stocks, Bank Stocks N. C. State Bonds, N. C. Railroad Stock and Other High Grade Secu-ities

### North Carolina Mill Stocks.

	Bid.	Asked
Arista		
Arlington		141
Avon		
Brown, pfd		100
Cannon	151	
Cabarrus	150	
Chadwick-Hoskins, pfd.		100
Chadwick-Hoskins, com		85
Chronicle		166
Cliffside	190	195
Efird, N. C	115	121
Erwin, com		150
Erwin, pfd		103
Gibson	106	
Gray Mf. Co	117	120
Highland Park	1911/	200
Highland Park, pfd		102
Imperial		133 1-3
Kesler	145	165
Loray Mills, pfd		95
Loray, com	10	
Lowell	181	
Majestie		150
Patterson	125	
Washington Mills		10
Washington Mills, ptd.		100
Wiscassett		150

Olympia Mlls, S. C., ofc.		
Parker Cotton Mills,		
guaranteed	100 10	10∈
Parker, pfd	40	15
Common	fü	20
Orr Cotton Mills		924
Ottaray Mills, S. C		100
Oconee Mills, common.		100
Oconee Mills, pfd	100 8	k m.
Pacolet Mfg. Co., S. C		101
Pacolet Mfg. Co., pfd	100 3	¢ m.
Parker Mills, pfd		40
Pelzer Mfg. Co., S. C		135
Pickens C. Mills, S. C.	100	
Piedmont Mfg. Co., S. C.		160
Poe F. W.) Mfg. Co., S.		
C	105	115
Richland C. M., S. C., pf		
Riverside Mills, S. C		25
Roanoke Mills, S. C	140	160
Saxon Mill, S. C	126	
Sibley Mfg. Co., Ga		64
Spartan Mill, S. C	125	
Tucapau Mill, S. C	280	
Toxaway Mills, S. C		72
Union-Buffalo, 1st pfd.	35	40

Tucapau Mill, S. C	280	
Toxaway Mills, S. C		9
Union-Buffalo, 1st pfd.	35	4
Union-Buffalo Mills, S.		
2nd pfd		
Victor Mfg. Co., S. C		
Ware Shoals Mfg. Co., S.		
C.,	75	
	75 80	
Warren Mfg. Co., S. C.	80	
Warren Mfg. Co., S. C. Warren Mfg. Co., pfd	80 100	
Warren Mfg. Co., S. C. Warren Mfg. Co., pfd Watts Mill, S. C	80 100	
Warren Mfg. Co., S. C. Warren Mfg. Co., pfd Watts Mill, S. C Williamston Mill, S. C	80	•
Warren Mfg. Co., S. C. Warren Mfg. Co., pfd Watts Mill, S. C	80 100	

#### Personal Items

A. P. Richardson, of Gastonia, N. C., has accepted a position with the Ozork Mills, of that place.

T. Brown has resigned as overseer of carding at the Bibb Mill No. 1, Macon, Ga., and accepted a similar position at the Payne Mills, of the same place.

Geo. S. Caine has resigned his position at the Dan River Mills, Danville, Va., to accept one with the Roanoke Mills, Roanoke Rapids, N Before leaving the help presented him with a leather suit case, a silk umbrella and fountain pen.

#### Charged With Criminal Assault.

John Ball, a young white man and an operative in the cotton mill at Pelham, Ga., was arrested last week, charged with criminal week.

It is alleged that Ball, in company with another man, went to the house of the victim, and after firing a pistol into the house, forced admittance, at which time the crime was committed. John Agler, the man in company with Ball, was also arrested, and it is understood is charged with doing the shooting.

#### Fight Over a Calf.

Steve Benson, an employee of the Wylie Cotton Mills, Chester, was arrested last week on the charge of shooting at Albert Ratterree with intent to kill.

The trouble had its inception, it is said, in the mill village over Benson's calf getting into Ratterree's crop of cotton. The calf was taken up by Ratterree, it is said, and Benson's crop of cotton of the calf was taken up by Ratterree, it is said, and Benson of the crop of the crop of the calf was taken up by Ratterree, it is said, and Benson of the crop of the crop of the calf was taken up by Ratterree, it is said, and Benson of the crop of the crop of the calf was taken up by Ratterree, it is said, and Benson of the calf was taken up by Ratterree. son was forced to pay \$1 to again secure it.

Benson, it is said, claims that Ratterree beat his calf, from which some angry words ensued, and he also claims he pulled his pistol on him and snapped it. After seeing that the pistol would not fire, it is alleged that Ratterree threw several rocks at him. To protect his own life, Benson, it is said, whipped out his pistol and fired at Ratterree.

#### About Sizol.

The Seydel Mfg. Co., of Jersey City, N. J., have recently sent the following letter to the trade: Gentlemen Weavers:

Last month we gave you the comparative results obtained by a Southern mill showing that a long boil of Sizol and starch is absolutely necessary to secure good results

This month another mill which boils its sizing two hours reports an average production of 96 per cent running no overtime, of which only 1/2 per cent are seconds.

This 1½ per cent tells the tale and

is a direct result of Sizol on 30's warps.

Are your results as good? At your servi The Seydel Mfg. Company. Methods of Cleaning Fires.

(Continued from Page 4) grate, before he puls any of it out of the furnace. This he should do to save himself from the heat which the hot clinker and ash would radiate into his face if he pulled out the clinker from the front part of the grate first and then tried to remove the clinker from the rear part of the grate. If all the clinker and ash are first collected on the front part of the grate the fireman can then step farther away from the furnace and with the long-handled hoe pull the clinker down onto the boiler room

While pulling the clinker and ash onto the front part of the grate the fireman can rest the hoe during the backward stroke on the lower edge of the furnace-door frame or the pile of clinker and ash already pulled to the front. This method of handling the hoe is similar to that shown in Fig. B; by its use the fireman will save himself the hard labor of lifting the hoe when he pushes it to the rear of the grate. In the majority of cases a steel-top wheelbarrow can be placed close to

floor without being subjected to the the furnace door and the clinker heat from the clinker at short dis- and ash can be pulled out of the tance. wneelbarrow.

#### Care and Ooperation of Roving Frames.

Care and Coperation of Roving Frames.

(Continued from Page 9) points not already mentioned oiled twice a day, even if some of them, as the carriage lifting shaft and train gearing are very slow in motion. It is the slow moving bearings that play the mischief when they get "stuck up" for the lack of oil. Front steel roll stands should be picked twice each week and the frames kept reasonably clean at all times. A clean frame is conducive to good running work. Roving frames should have a good cleaning and overhauling at least once a year. Take out of the steel rolls and give them a good cleaning and scouring. Examine them for loose and crooked joints and have same fixed. Place a small quantity of good soluble grease in the stands and replace the rolls, being careful not to bend them while doing so. Remove the gears from the spindles, take out the spindles and clean the bolsters, being sure to get all of the gummed cotton and oil out of them. Next take the casing off of the carriage and clean thoroughly, removing all the gummed up grease and lint from the hanger bolsters, Place a fresh supply of grease in the shafts, examine the steps, grease the shaft hanger steps. Replace the bolster. Put on the spindle gears, replace the carriage casing, oil bobbing ears and bolsters and examine the leather rolls, discarding all bad ones. Then pull the roving through the trumpets until it reaches the front roll, then put back leather roll, oil and hang the weights. The frame is then in good shape, but do not stop there. Examine the whole frame is then in good shape, but do not stop there. Examine the whole frame is then in good shape, but do not stop there. Examine the whole frame thoroughly, replacing all the worn gears and replace or have bushed all the worn bearings. If the cone or jack shaft is hadly worn, have new one made at once. See that all oil holes are open. N take off the large gear in the head bushed all the worn bearings. If the cone or jack shaft is badly worn, have new one made at once. See that all oil holes are open. N take off the large gear in the head end that drives the front roll, start up the frame, oil all slow moving parts with gasoline or kerosene to remove oil and dirt. Replace the gears in the head end, set draft gears, start up the frame and put up the ends. You then have a frame that is almost as good as new.

new.

If the rules already given are carried out, there will not he much fixing to do, except set bobbin gears best fixing is done by using the oil cup twice a day. The only part and change draft gears, etc. The that give serious trouble to the fixer is the carriage traverse change motion and the gap gear or plunger that makes the change. This part of the frame should be examined often, all bolts kept tightened and gap and bevel gear on end changed gap and hevel gear on end changed before they become so badly worn that they fail to do their work. Then the frame runs over, making a lot of waste and sometimes getting the whole traverse motion out of adjustment. Of course, there are other troubles which may present themselves, but the things I have mentioned, if not carefully looked after, will give the most trouble. Uno.

(Continued Next Week.)

#### HIGH GRADE MILL BRUSHES



Special Brushes Made to Order

All Kinds of Brushes Repaired

D. D. FELTON BRUSH CO. ATLANTA, GA.

## SPINNING RINGS Best Quality Guaranteed

Also Manufacturers of Drop Wires

The Connecticut Mill Supply Co.,

Torrington, Connecticut

Southern Representatives, PEARSON & RAMSAUR, Greenville, S. C.

## WIRE US FOR GAR-LAND MENDING EYES

When In Urgent Need

We carry a large stock of mending eyes for loom harnesses and can promptly furnish any size desired. The eyes are of exactly the same size of twine and shape as the harnesses on which they would be used and will weave as well and wear as long as the harness itself.



GARLAND · MFG · CO ·

Saco, Maine

#### SOLUBLE SIZING TALLOW



as a most valuable softening agent. Users of this article will avoid the danger of mildewed warps and also the disagreeable odor of Raw Tallow in the goods. In short, an excellent softening agent.

### ARABOL MANUFACTURING CO.

100 William Street, New York

CAMERON MacRAE Southern Sales Agent

CHARLOTIE. N. C.

## Want Department

#### Want Advertisements.

If you are needing men for any position or have second hand ma-chinery, etc., to sell, the want col-umns of the Southern Textile Bulletin afford a good medium for adertising the fact.

Advertisements placed with us reach all the mills.

#### Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulelin and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position secured, in which case a reasonable fee is charged.

We do not guarantee to place every man who joins our employ-ment hureau, but we do give them the best service of any employment bureau connected with the Southern textile industry

#### Warper Tender Wanted.

Job now open for first class warp yarns from 10s to 16s single warps, steady employment si on denn warper. days per week. Pays \$1.50 per day. Address No. 1033, care Southern Textile Bulletin.

#### Beamer Wanted.

Wanted at once-

wo first class pattern beamers Two first class pattern beam-

One first class machinist. Pay \$12.00 per week for each. Men with family preferred. J. B. Boyd, Supt., Patterson Mills, Roanoke Rapids, N. C.

#### Section Men Wanted.

Want two section men on Howard & Bullough spinning. Pay \$1.40 per day. None but hustlers need apply. Address "Section." care Southern Texlile Bulletin

#### Salesman Wanted

Want first-class salesman for Sizing Con pourd. Soap Powders and Boiler Compound. None but sober, reliable men need apply. Send references with first letter. Address Sizing, care Southern Textile Bulletin.

- ANT position as superintendent. Now employed and giving satis-faction but want larger mill. Have had wide experience and can fur- WANT position as superintendent nish good references. Address No.
- WANT position as overseer of cloth room. Have 14 years experience exports, domestics, sheetings, ills, fancies and sateens. Can furnish necessary references as

to ability and character. Address

- WANT position as superintendent Now employed and giving of yarn mill or carder and spinsatisfaction but want larger job. Good references. Address No.
- WANT position as overseer of spin-Experienced on both fine and coarse numbers and can handle large room. Good experience and fine references. Address No.
- WANT position as superintendent of small mill or overseer of carding. Long experience as carder. Age 34. Married. Strictly sober and attend to business. Good references. Address No. 497.
- WANTED position by a married man, 33 years old, as overseer of carding in some good mill it N. C. Am now employed, but want better 'job. Have had four years' experience as overseer. 19 years in mill. Can furnish good references from past and present employers. Address No. 498.
- position as overseer weaving. Have had ten vears' experience as overseer. Have run some big jobs. Nothing less than \$2.50 per day considered. Good references. Address No. 499.
- WANT position as superintendent. Have had long experience, especially on fine combed yarns. Can furnish best of references and can give satisfaction. Address No.
- WANT position as superintendent. Have long experience both as overseer of spinning and as su-perintendent Can furnish refperintendent Can furnish ref-erences from former employers. Prefer weaving mill. Address No. 501.
- ANT position as master me-chanic, 23 years experience. Strictly soher, Good references from present and past employers. Have family of spinners and doff-Have seldom changed positions. Address No 502.
- WANT position as superintendent of varn mill or overseer of sninning in large mill. Age 23. Mar-ried. Strictly soher with no had habits. Can furnish best of references as to ability and charac-Address No. 503.
- or overseer of spinning. Now employed in large mill and giving satisfaction but prefer to change Good references. Address No. 504.
- WANT position as overseer of experience. years on last job. Age 35. Can

furnish good references both as to character and ability. Address

- WANT position as overseer spin-ning twisting or winding. Have had long experience and can give good references. Now employed Address No. 506.
- WANT position as superintendent Have had long experience and can secure production. Good references. Now employed, but want better position. Address No. 508.
- WANT position as superintendent of small mul or carder and spinner in a large mill. Have had long experience and given satisfaction. Am a textile graduate. Address No. 509.
- MANUFACTURING Chemist, making Softeners, Sizing and Fnishing Compounds is open for engage-ment with a Sizing material concern or will act as Maker Manufacturing concern. Starch expert and good salesman. Practical sizer on Cottons and Worsteds, English experience. Address No. 510.
- JOB WANTED as overseer in large room or assistant superintendent. Now employed as su-perintendent of small mill, but would change for larger job. Good references and long experience. Address No. 511.
- WANT position as superintendent of medium sized mill or overseen of spinning in large mill. Have had long practical experience and can furnish excellent references. Address No. 512.
- WANT position as overseer caruing at not less than \$3.00 per day. Have had 15 years experience in eard room. 4 years as overseer. 29 years old. Married. Can give good references. Address No. 513.
- WANT position as carder or spinner or superintendent. Would accent job at \$3.00 per day. Can take job at once. Goood references and long experience. Address No. 514.
- WANT nosition as overseer carding with a first-class mill at \$350 or \$4.00 ner day. Long experience. Can give good references. Address No. 515.
- WANT position as carder ar eninner or both hy a voung married man. Strictly soher and good manager of heln. Rest of references by nast employers. Production guarantood or know the reason why. Address No 516.
- WANT position as superintendent Have had long experience and am entiraly commetant, Can furnish satisfactory references and will and will eive satisfaction. Address No.
- WANT position as superintendent Have had long experience and antina entiefaction. for changing is for better salary

## **PATENTS**

#### Trade marks and Copyrights

Send your business direct to Wash ington. Saves time and insure better service.

Personal Attention Guaranteed 30 Years Active Service

SIGGERS & SIGGERS Patent Lawyers Suste 34 A U. Bldg. Washington, D.C.

- 45 years old. Married. Member of church, strictly sober. My ex-perience has been from the ground up on both white and colored work. Address No. 518.
- WANT position as overseer carding. 24 years experience in carding. Married. Sober. Good references. Can change on short notice. dress No. 519.
- WANT position as superintenden' or overseer carding or carder and spinner. Good references both as to character and ability Address No. 520.
- WANT position as overseer carding at not less than \$3.00 per day Can give good references and dan change on week's notice. Addres-
- WANT position as superintendent of spinning mill by practical man with 22 years experience in spinning. Am at present spinner ir 50,000 spindle plant. Have beer with present employers for eight years. Address No. 522.
- WANT position as superintendent at not less than \$1,500. Now employed and giving satisfaction. but prefer a more modern mill. Can furnish the best of references. Address No. 523.
- WANT position as overseer of carding at not less than \$2.50 per day. Have had long experience and can furnish best of references. Address No. 524.
- WANT position as overseer weeving. I am an overseer of long experience on different classes of goods, both plain and fancies. Car dress No. 525.
- WANT position as carder or spinner, or both, or superintendent of small mill. Have had 15 years' experience as practical mill man Address No. 526.
- WANT position as overseer of rarding or earding and spinning in small mill. S. C. or N C. preferred. 45 years experience. Age 44. Now employed. Would ac-cept \$3 per day. Address No. 527.
- WANT position as master mechanic. Have had long ence. Now employed and giving Have had long experience. Now employed and giving satisfaction but want larger job. Address No. 528.

(Continued on next page)

(Continued from last page)

WANT position as overseer of weaving. 23 years experience. Good references. Now employed. Have run large room. Age 45. Prefer room with Draper looms. Address No. 529.

WANT position as overseer of spinning or winding at not less than \$2.50 per day. 17 years ex-perience. Have also taken textile course. Can furnish good references. Address No. 530.

WANT position as superintendent of yarn mill or carder and spinner. Have had long experience and can furnish good references. Would like to correspond with mill needing first-class man. Address No. 531.

WANT position as overseer carding at not less than \$3.00. Have held present job 2 years and am giving satisfaction, prefer to change. Good references from present and former employers. Address No. 532.

WANT position as overseer of dyeing. Have had 23 years' experience on warp and raw stock dyeing. 4 years' experience sizing warps. Have three hands besides myself. Address No. 533.

WANT position as superintendent of 5,000 or 10,000-spindle yarn mill or carder and spinner in large mill. Can furnish best of refer-Age 35. Have been with present mill 6 years. Address No.

WANT position as carder or spin-ner, or both, in a small mill. Ha e 10 years experience as overseer of carding and spinning. Married. Strictly sober, Now employed. Good references. Address No. 535.

WANT position as overseer of spinspooling, warping ning. twisting. Have 15 years experi-ence. Middle aged. Married. Can furnish best of references. Address No. 536.

WANT position as overseer of carding and spinning. 4 years experience in card room, 13 years as overseer spinning. Good reason for wanting to change. Good references. Address 537.

WANT position as superintendent. Have had many years experience and can furnish first-class references from former employers. Sober, reliable and good manager of Address No. 538.

WAN'T position as carder or spinner or both Am practical mill man of long experience and can furnish as reference present and former employers. Address No.

WANT position as master mechanic Have had wide experience with cotton mill plants and general repair work. Have first class engi-

WANT position as overseer of spinning in large mill or superintendent of small mill. Have had long experience and can furnish good references. Address No. 541.

VANT position as overseer of weaving. Have had long experi-ence on both white and colored work and can furnish first-class references. Address No. 542.

WANT position as overseer of spinning or weaving at not less than \$3.00 per day. Can furnish best of references for either place. Prefer North or South Carolina. Address No. 543.

WANT position as overseer of carding. 31 years old. Married. Good habits and a hustler for production. Only reason for wanting to change is larger job. Can give good references. Address No. 544.

WANT position as overseer of weav-14 years' experience as fixer and overseer. Age 32. Strictly sober. I. C. S. graduat. Fine references. Address No. 545,

WANT position as superintendent in small mill or carder in large mill. Can give A 1 references. Age 39. 25 years mill experience. Held last job for six years. Address No. 546.

WANT position as traveling representative for a mill supply house or for a line of textile books or journals. Have good experience and can furnish good references. Address No. 547.

WANT position as carder or spinner on either white or colored work, either coarse or fine. Have experience on warping, twisting, etc. 12 years as overseer. Good references. Address No. 548.

WANT position as overseer of spin-Have had long experience furnish satisfactory references. Address No. 549.

WANT position as overseer of carding in small mill or second hand in a large mill. Am now employed but prefer to change. references. Address Good

WANT position as overseer of card-Held last job three years and gave satisfaction. Can furnish satisfactory references. Address No. 551.

WANT position as superintendent. Can furnish best of references. Address No. 553.

WANTED position as earder, spinon short notice. Good references. Address No. 554.

rience as engineer and master mechanic. Would like to corre-spond with mill in need of such a man. Address No. 555.

WANT position as superintendent, assistant or overseer of weaving by a Northern man. 40 years of age. Married, moral and strictly temperate. 28 years experience on nearly all grades of cotton goods—plain or fancies, white or colored. Good spinner. Expert weaver, and textile graduate. 3 years in present position. Salary no object the first year. Three workers in family. Best of ences. Address No. 552. of refer-

WANT position as overseer of weaving. Prefer print goods. Believe in looking out for production, quantity and quality at lowest cost. Have family. Present employers as references. Address No. 556.

WANT position as superintenden' of small mill or overseer of spinning in large mill. Now employed as spinner and assistant superintendent and giving satisfaction Good references. Address No. 557

WANT position as superintendent or overseer of carding in large mill. Experienced on both white and colored goods. Satisfactory references. Address No. 558.

WANT position as superintendent of either yarn or weave mill. Have had long experience. Held present job three years. Good references. Address No. 559.

er room. Have good experience in first-class mills and can furnish good references. Address No.

#### on both coarse and fine work. Can Prosperous Year in Northern China (Continued from Page 3)

as possible. As the nuts were not ripe, in many cases the hulls adhered to them, and had to be torn off by hand. This left stains on the shells, and some chemical preparation containing sulphuric acid was used to bleach the exterior. found its way at the joint between the two halves of the shell, and often injuriously affected the ker-nels. Then, many of the kernels. being in the milk, dried up, leaving nothing but the black skin in which they had been contained. while those at a greater stage of ANT position as superintendent, development decayed. The net re- in Decembe Now employed and giving satis- sult was great losses on the part was 25 1-8d faction, but desire larger mill, of merchants who had engaged in in January. the trade without taking proper precautions as to the quality of the nuts which they were shipping: while the buyers in the United ner or superintendent. 20 years States, bitterly disappointed and practical experience as overseer suffering severe losses, abandoned and superintendent. Can change the trade. These facts account fully for the diminution in the export of this article.

## Chance for Knitting Mill Man

In an East Tennessee town local capital has been subscribed for a knitting The parties behind the enterprise want a capable manager and superintendent for the plant who will invest some money in stock.

There is a good supply of available labor, women and girls, many of whom are already trained.

If interested write.

#### M. V. RICHARDS

Land and Industrial Ager SOUTHERN RAILWAY Room' 129 Washington, D. C.

other adulterants. The testing house is in the hands of the native customs, through whose office all inland cargo must pass. Regulations for testing were adopted by the General Chamber of Commerce, received the approval of the diplomatic body in Peking and were agreed to by the Chinese government. The benefit to the trade is shown by the large quantity in November, 1912, and was the subject of a report by this office. (See Daily Consular Trade Reports for January 30, 1913.)

During the year there was a very WANT position as overseer of card- strong demand from the United ing. Now employed but want larg- States for gray goatskins and goat-1,170,854, and a total number entrances and clearances of 1.815 vessels, a shortage of 372 compared with 1911. This decrease was due to two factors: First, in 1911 there was an abnormal demand for ves sels to carry salt to ports on the Yangtze River; second, in 1912 no tribute rice was sent from the south to the capital. This condition will continue and must be considered in comparing the trade of Tienstin in future years with that of the past.

Through the courtesy of local brokers, this consulate has been furnished with a chart showing the fluctuations of the exchange mar-ket for 1912. (This chart will be loaned by the Bureau of Foreign and Domestic Commerce.) The highest point reached by bar silver was 29 11-16d. (60.19 cents) per ounce in December, and the lowest point was 25 1-8d. (50.94 cents) per ounce

The highest point for bank telegraphic transfers on London aws 3s. 15-16d. (74.86 cents) in December, and the lowest 2s. 72-4d. (64.38 cents) in January.

The foreign population of all nationalities in the various concessions at Tienstin numbers 3.944, of neer license. Am strictly sober and attend to business. Address WANT position as master me- largely facilitated by the adoption 000 Chinese live in the various conchanic. Have had 30 years' expe- of an official test for water, and cessions.—Consular Reports.

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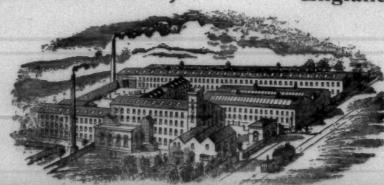
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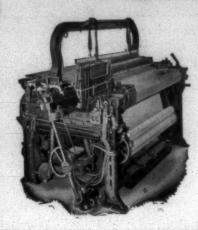
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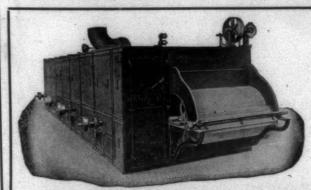
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